15

20

WHAT IS CLAIMED IS:

An image sensing method comprising:

a vibration detecting step of detecting vibration

of an image sensing apparatus main body;

a dalculating step of calculating a correction variable based on vibration data indicative of the vibration of the image sensing apparatus main body detected in said vibration detecting step;

a control step of controlling a timing of reading an image signal from an image sensing device based on a calculation result of said calculating step;

a delaying step of delaying the read image signal by predetermined time;

an adding step of adding the read image signal to the delayed image signal, delayed in said delaying step, at a predetermined addition ratio based on the calculation result of said calculating step; and

an addition control step of prohibiting addition of said adding step when sensing a still image.

The image sensing method according to claim
 further comprising:

a switching step of switching between a still

25 image sensing mode and a moving image sensing mode; and
a recording step of performing recording operation

15

20

of the still image based on a mode switched in said switching step.

3. An image sensing method comprising:

a vibration detecting step of detecting vibration of an image sensing apparatus main body;

a calculating step of calculating a correction variable based on vibration data indicative of the vibration of the image sensing apparatus main body detected in said vibration detecting step;

a control step of controlling a timing of reading an image signal from an image sensing device based on a calculation result of said calculating step;

a delaying step of delaying the read image signal by predetermined time;

an adding step of adding the read image signal to the delayed image signal, delayed in said delaying step, at a predetermined addition ratio based on the calculation result of said calculating step; and

an addition ratio control step of controlling the addition ratio, used in said adding step, to 1:0 when sensing a still image.

4. The image sensing method according to claim

25 3, further comprising:

a switching step of switching between a still

5

10

15

20

5. An image sensing apparatus comprising:
vibration detecting means for detecting vibration
of the image sensing apparatus main body;

calculating means for calculating a correction variable based on vibration data indicative of the vibration of the image sensing apparatus main body detected by said vibration detecting means;

control means for controlling a timing of reading an image signal from an image sensing device based on a calculation result of said calculating means;

delaying means for delaying the read image signal by predetermined time;

adding means for adding the read image signal to
the delayed image signal, delayed by said delaying means,
at a predetermined addition ratio based on the
calculation result of said calculating means; and
addition control means for prohibiting addition of
said adding means when sensing a still image.

25 6. The image sensing apparatus according to claim 5, further comprising:

switch means for switching between a still image sensing mode and a moving image sensing mode; and recording means for performing recording operation of the still image based on a switched mode of said switch means.

7. The image sensing apparatus according to claim 5, wherein said vibration detecting means is an angular velocity sensor.

10

15

20

25

5

8. An image sensing apparatus comprising:
vibration detecting means for detecting vibration
of an image sensing apparatus main body;

calculating means for calculating a correction variable based on vibration data indicative of the vibration of the image sensing apparatus main body detected by said vibration detecting means;

control means for controlling a timing of reading an image signal from an image sensing device based on a calculation result of said calculating means;

delaying means for delaying the read image signal by predetermined time;

adding means for adding the read image signal to the delayed image signal, delayed by said delaying means, at a predetermined addition ratio based on the calculation result of said calculating means; and

20

addition ratio control means for controlling the addition ratio, used by said adding means, to 1:0 when sensing a still image.

5 9. The image sensing apparatus according to claim 8, further comprising:

switch means for switching between a still image sensing mode and a moving image sensing mode; and recording means for performing recording operation

of the still image based on a switched mode of said switch means.

- 10. The image sensing apparatus according to claim 8, wherein said vibration detecting means is an angular velocity sensor.
- 11. A storage medium storing a control program for controlling an image sensing apparatus, said control program having control modules comprising the steps of:

detecting vibration of an image sensing apparatus main body;

calculating a correction variable based on vibration data indicative of the detected vibration of the image sensing apparatus main body;

25 controlling a timing of reading an image signal from an image sensing device based on a calculation

20

25

result;

delaying the read image signal by predetermined time;

adding the read image signal to the delayed image signal at a predetermined addition ratio based on the calculation result; and

controlling to prohibit the adding step when sensing a still image.

10 12. The storage medium according to claim 11, said control program having control modules comprising the steps of:

switching between a still image sensing mode and a moving image sensing mode; and

controlling to perform recording operation of the still image based on a switched mode.

13. A storage medium storing a control program for controlling are image sensing apparatus, said control program having control modules comprising the steps of:

detecting vibration of an image sensing apparatus main body;

calculating a correction variable based on vibration data indicative of the detected vibration of the image sensing apparatus main body;

controlling a timing of reading an image signal

from an image sensing device based on a calculation result;

delaying the read image signal by predetermined time;

adding the read image signal to the delayed image signal at a predetermined addition ratio based on the calculation result; and

controlling the addition ratio to 1:0 when sensing a still image.

10

15

20

14. The storage medium according to claim 13, said control program having control modules comprising the steps of:

switching between a still image sensing mode and a moving image sensing mode; and

controlling to perform recording operation of the still image based on a switched mode.

15. An image sensing method comprising:

an image sensing step of sensing an object; and a vibration correction control step of correcting vibration of an image sensing apparatus main body,

wherein in said vibration correction control step, only a predetermined correction position is used among settable correction positions.

16. The image sensing method according to claim
15, wherein in said vibration correction control step,
the vibration of the image sensing apparatus main body
is electrically corrected.

5

10

- 17. The image sensing method according to claim 16, wherein in said vibration correction control step, signals for adjacent pixels are read simultaneously in the vertical direction from an image sensing device which is employed in said image sensing step, and a scan pixel area is changed at a minimum of one pixel pitch.
- 18. The image sensing method according to claim
 17, wherein said vibration correction control step
 15 includes a shifting step of shifting an image up or down
 by adding image signals of vertically neighboring image
 signals.
- 19. The image sensing method according to claim
 20 18, wherein in said vibration correction control step,
 only a predetermined correction position is utilized by
 appropriately controlling a shift amount of the scan
 pixel area and an addition ratio of the vertically
 neighboring image signals.

25

20. The image sensing method according to claim

15, wherein said image sensing apparatus is a video camera.

21. An image sensing method comprising:

an image sensing step of sensing an object; and
a vibration correction control step of correcting
vibration of an image sensing apparatus main body,

wherein in said vibration correction control step, an image is shifted up or down by changing a scan pixel area at one pixel pitch and adding vertically neighboring image signals at a predetermined addition ratio so as to keep resolution of the image signals constant.

22. The image sensing method according to claim 21, wherein in said vibration correction control step, the addition ratio of the vertically neighboring image signals is fixed to 1:7 or 7:1, and a correction pitch is set at 1/2 pixel pitch.

20

10

- 23. The image sensing method according to claim 21, wherein said image sensing apparatus is a video camera.
- 24. An image sensing apparatus comprising: image sensing means for sensing an object; and

10

15

vibration correction control means for correcting vibration of an image sensing apparatus main body,

wherein said vibration correction control means uses only a predetermined correction position among settable correction positions.

- 25. The image sensing apparatus according to claim 24, wherein said vibration correction control means electrically corrects the vibration of the image sensing apparatus main body.
- 26. The image sensing apparatus according to claim 25, wherein said vibration correction control means simultaneously reads signals for adjacent pixels in the vertical direction from an image sensing device which is employed by said image sensing means, and changes a scan pixel area at a minimum of one pixel pitch.
- 27. The image sensing apparatus according to claim 26, wherein said vibration correction control means includes shifting means for shifting an image up or down by adding vertically neighboring image signals.
- 25 28. The image sensing apparatus according to claim 27, wherein said vibration correction control

means utilizes only a predetermined correction position, by appropriately controlling a shift amount of the scan pixel area and an addition ratio of the vertically neighboring image signals.

5

29. The image sensing apparatus according to claim 24, wherein said image sensing apparatus is a video camera.

10

30. An image sensing apparatus comprising:
image sensing means for sensing an object; and
vibration correction dontrol means for correcting
vibration of an image sensing apparatus main body,

wherein said vibration correction control means

shifts an image up or down by changing a scan pixel area
at one pixel pitch and adding vertically neighboring
image signals at a predetermined addition ratio so as to
keep resolution of the image signals constant.

20

31. The image sensing apparatus according to claim 30, wherein said vibration correction control means fixes the addition ratio of the vertically neighboring image signals to 1:7 or 7:1, and sets a correction pitch at 1/2 pixel pitch.

25

32. The image sensing apparatus according to

20

claim 30, wherein said image sensing apparatus is a video camera.

- 5 for controlling an image sensing apparatus, said control program having control modules comprising the step of controlling such that vibration correction control means which corrects vibration of an image sensing apparatus main body uses only a predetermined correction position 10 among settable correction positions.
 - 34. The storage medium according to claim 33, wherein said vibration correction control means electrically corrects the vibration of the image sensing apparatus main body.
 - 35. The storage medium according to claim 34, wherein said vibration correction control means simultaneously reads signals for adjacent pixels in the vertical direction from an image sensing device which is employed by said image sensing means, and changes a scan pixel area at a minimum of one pixel pitch.
- 36. The storage medium according to claim 34,
 25 wherein said vibration correction control means includes
 shifting means for shifting an image up or down by

10

15

20

adding vertically neighboring image signals.

- 37. The storage medium according to claim 34, wherein said vibration correction control means utilizes only a predetermined correction position, by appropriately controlling a shift amount of the scan pixel area and an addition ratio of the vertically neighboring image signals.
- 38. The storage medium according to claim 33, wherein said image sensing apparatus is a video camera.
 - 39. A storage medium storing a control program for controlling an image sensing apparatus, said control program having control modules comprising the step of shifting an image up or down by changing a scan pixel area at one pixel pitch and adding vertically neighboring image signals at a predetermined addition ratio to correct vibration of an image sensing apparatus main body, and making the predetermined addition ratio constant so as to keep resolution of the image signals constant.
- 40 The storage medium according to claim 34,
 25 wherein said vibration correction control means fixes
 the addition ratio of the vertically neighboring image

signals to 1:7 or 7:1 and sets a correction pitch at 1/2 pixel pitch.

The storage medium according to claim 38,

wherein said image sensing apparatus is a video camera.